



# DAV UNIVERSITY

S.No	Year	Collaborative Institute	Name of the activity	Topic	Date
1	202223	AMU, Aligarh, UP	Visit of students to AMU, Aligarh	For visit to University sophisticated Instrumentation facility	20.02.2023
2	202223	Trinity College, Jalandhar	Invited Talk by Dr. Sandeep Vij, IQAC Member	Role of Teacher in Digital World	07.01.2023
3	202223	S.G.H.R.S College for Women, Chhabewal, Hoshiarpur.	Invited Talk by Dr. Sandeep Vij, IQAC Member	How is technology affecting commerce?	15.02.2023
4	202223	Baba Sahib Bhim Rao Ambedkar Government Coeducation College, Bootan Mandi	Invited Talk by Dr. Geetika Nagrath, IQAC Member	New Education Policy 2020 and educational preparedness	18.03.2023
5	202223	Niagra College, Canada	Invited Talk by Dr. Sandeep Vij, IQAC Member	Research Process and Methodology	21.03.2023

# Department of Chemistry

## DAV University

The Vice Chancellor

DAV University

Respected Sir

It is humbly stated that the students of the department of Chemistry DAV University, have planned an academic visit to the department of Chemistry, Aligarh Muslim University, Aligarh UP and the University Sophisticated Instrumentation facility at AMU Aligarh. We have received consent from the coordinator of the University Sophisticated Instrumentation facility (USIF) AMU Aligarh. We will be visiting USIF, AMU on 20 February 2023. There are 68 students who have shown interest in this academic visit. All the students will be contributing to fund this visit and we don't require any financial assistance from DAV University. The students also planned nearby sightseeing and will also be visiting Tajmahal and Vrindavan. Therefore, we will be leaving on 17 February 2023 (Friday) evening and will be visiting Tajmahal on 18 Feb 2023 followed by Vrindavan on 19 Feb 2023 and AMU Aligarh on 20 Feb 2023. We will be returning on 21 February 2023 (Tuesday) morning. We request your permission to visit the department of Chemistry and instrumentation facility, Aligarh Muslim University Aligarh UP and **allow the duty leave to the students and accompanying faculty members** for attending this academic visit. The list of the students is attached herewith. The following **faculty members will be accompanying the student during this visit.**

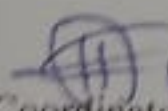
Dr Ahmad Husain

Associate Professor Department of Chemistry

Dr Bandna

Assistant Professor Department of Chemistry

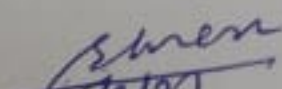
Thanks and regards

  
6620  
Coordinator



The underwriting form and consent of parents is required before departure for the visit.

Dr. Ahmad

  
15/2/23



Chemistry Coordinator <coordinator.chem@davuniversity.org>

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## Confirmation

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**sartaj tabassum** <tsartaj62@yahoo.com>

Mon, Feb 13, 2023 at 4:35 PM

To: coordinator.chem@davuniversity.org, Mohammad Muneer <readermuneer@gmail.com>, ANEES AHMAD <aneesahmad@yahoo.com>

Cc: Maaz Khan <abulmaaz@gmail.com>

Dear Dr. Ahmad

I will arrange your visit as per your program on 20th February 2023

Just ring me on your arrival at Aligarh.

[9358255791](tel:9358255791)

Regards

Prof. Sartaj Tabassum

Sent from my iPhone

# Department of Chemistry

## DAV University, Jalandhar

### Tour report - AMU

On 17<sup>th</sup> February, the chemistry department of DAV University, Jalandhar organized a 3 day trip focussing on the visitation of USIF of Aligarh Muslim University, Aligarh on the 20<sup>th</sup> Feb. The students accompanied with the concerning teachers departed from the university on 17<sup>th</sup> February at around 8:30pm. The first destination was Agra and the students checked in the hotel in the morning of 18<sup>th</sup> around 10:30. The students then visited Agra Fort and Taj Mahal where a guide accompanied them and making them familiar the ancient history of the places. After having an eventful day, the students returned to the hotel and rested there till morning and again got ready to set their sail in Mathura and Vrindavan. The students checked out at around 10:30am and reached Mathura around 11:30am where they visited the 'Krishna Janma Bhumi'. After feeling the divinity of the place, the trip continues and they checked in the Radha Krishna Ashram around 3:00pm. The students were allowed to spend their time in visiting the temples. Many temples were visited there including Iskon temple which made everyone feel excited and wonderful, Prem Mandir where the architecture itself is a joy to the eyes, Nidhi Wan, the Bankebihari temple which was a bliss for both mind and soul. After having the lunch at the Ashram the trip moved towards the last and the main destination, AMU. The students were very warmly welcomed and lunch was provided before going through the actual purpose of the visit. The students were shown various instruments including Scanning Electron Microscope (SEM), Transmission Electron Microscope (TEM), Liquid Chromatography-Mass Spectrometry (LC-MS), Single Crystal X-ray Diffraction (SCXRD) and Nuclear Magnetic Resonance (NMR). The operator politely explained the basic functioning of the instruments, their differences from each other and also helped the students to better understand the machinery by showing some pre-results of the instrument. All the questions from the students were very well entertained and even though the students were tired but still their amazed expressions while seeing the instruments and their curious minds couldn't be stopped. The trip ended with tiresome, satisfied some happy and some sleepy faces and the students reached back to their university at 9:30am of 21<sup>st</sup> February to continue their daily university life.

As the USIF was the main focus of the trip, further details have been provided by the students on it:

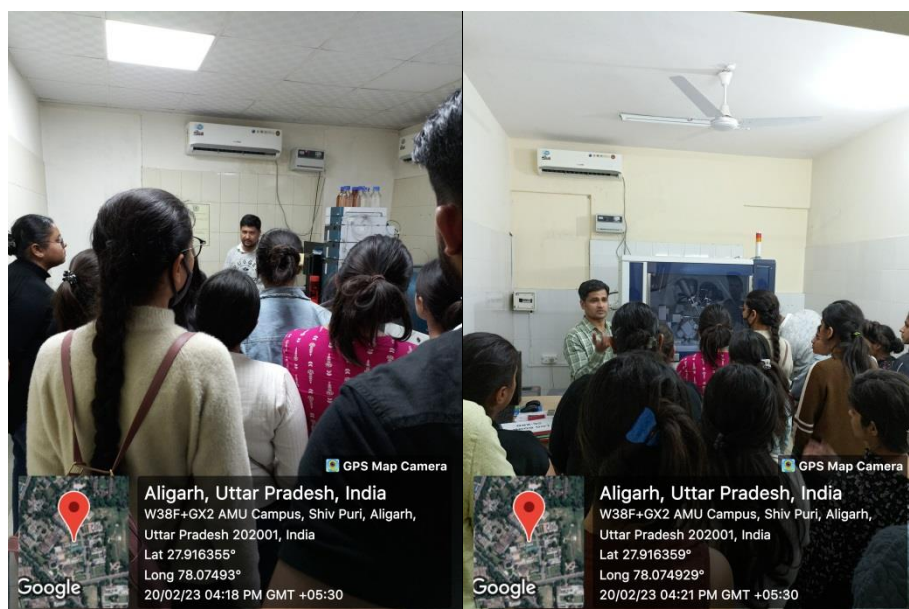
The first instrument seen was SEM which stands for Scanning Electronic Microscope. The operator informed the students that the purpose of the instrument was to observe the surface morphology and microstructure of the sample. The sample need to be dry and conducting and if it isn't then a gold coating is applied on it to make it conducting and are mounted on the sample holder. It consists of an electron gun which generates an electron beam which interacts with the sample and produces secondary electrons which are detected by the detector. This needs a vacuum condition for functioning so a vacuum pump was also attached. It can be used for various biological samples such as insects and even cells after stabilizing them.

The second instrument seen was TEM which stands for Transmission Electron Microscope. An image is formed when the electron beam is transmitted due to the interaction of sample and electron. They give a more magnified and higher resolution imaging than SEM. They have found their application in nanotechnology, cancer research, material science, etc.

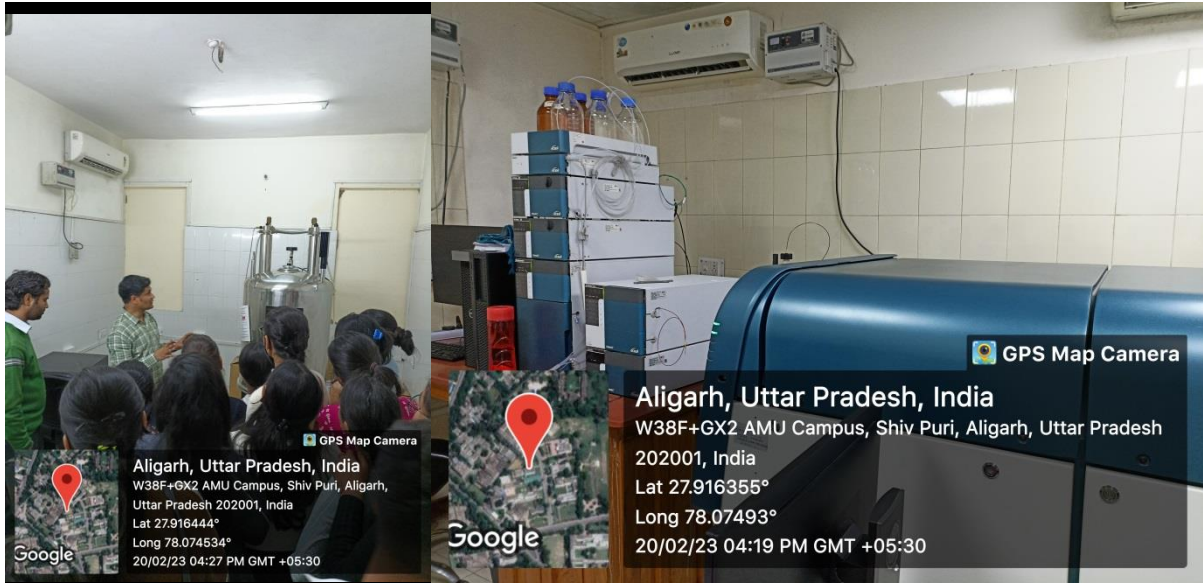
The third stop was LC-MS which is the acronym for Liquid Chromatography – Mass Spectrometry. It is an analytical chemistry technique and is a combination of two techniques so the machinery took quite a large space. The first unit is the LC unit in which the qualitative separation of the sample takes place while the second unit, MS unit was provide the graphical result to determine the molar mass of the various separated components to identify them. The sample here is liquid and an optimum amount should be used for the better results. It is used to determine various proteins, metabolites, etc.

The Forth station of this informative journey led to one of the most common and important technique SC-XRD which is Single Crystal X-Ray Diffraction. The instrument was quite sophisticated. It is a non- destructive technique and provides detailed information about the internal lattice of the crystalline sample including its unit cell parameters. A very detailed discription of the instrumentation and the working was given of the instrument.

The last was the NMR which is the nuclear magnetic resonance instrument. A really special thing about this instrument was that it didn't need electricity to work. It basically seemed like a tank like structure in which the core is the liq. Helium jacket and the outer is liq. N<sub>2</sub> jacket which are essential in maintaing the temperature of the instrument. On the top was the sample inlet and the results are directly recieved on a monitor. This knowledge rail ended with the explanation of the components and working of the instrument.



DAV University Students at SAIF Lab (AMU)



DAV University Students at SAIF Lab (AMU)



# TRINITY COLLEGE, JALANDHAR

(Affiliated to Guru Nanak Dev University, Amritsar)

Church Nagar, Guru Gobind Singh Avenue,  
P.O. Chogitty, Jalandhar-144009, Punjab, India.



NAAC Accredited and UGC Recognised under section 2(f) & 12(B)

Ref. No. TC/2022-23/514  
To

Dated. 07/01/2023.

Dr. Sandeep Vij,  
Associate Professor in Management,  
DAV University, Jalandhar

## Acknowledgement and Gratitude

Respected Sir,

It is a great privilege for us to have you as a Resource person for Faculty Development Programme on the topic "Role of Teacher in Digital World" on 07/01/2023 (Saturday) at 09:45 AM. We are grateful to you for sparing your valuable time for the benefit of our students.

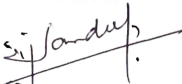
We are sure that this interactive session will strengthen our bond and hope to work together in future for betterment of the society as well as the institution.

Regards

  
Principal

  
Co-ordinator

I, Dr. Sandeep Vij, Associate Professor in Management, DAV University, Jalandhar acknowledge the above mentioned particulars and confirm my visit to the institution.

  
SIGNATURE

DATE : 07/01/2023



# S.G.H.R.S. College for Women, Chabbewal

— Hoshiarpur —

One Day National Seminar

on

## CONTEMPORARY ISSUES IN COMMERCE

(15th February 2023)

Organized by : Department of Commerce

Sponsored by : Dean College Development Council, Panjab University, Chandigarh

### Certificate

This is to certify that Prof. / <sup>Dr.</sup> / Ms. / Mr. SANDEEP VIJ  
of D.A.V. UNIVERSITY, JALANDHAR  
has participated in the DCDC, Panjab University sponsored National Seminar on “Contemporary Issues in  
Commerce” organized by Department of Commerce. He / ~~She~~ <sup>✓</sup> chaired a Session / Delivered a Lecture as  
Resource Person / Presented a Paper entitled HOW IS TECHNOLOGY AFFECTING COMMERCE

  
Organizing Secretary

  
Principal / Convener



**Baba Saheb Bhim Rao Ambedkar Govt. Co-Education College,  
Bootan Mandi, Jalandhar**

Ref. No. 359

Dated 22/03/23

Dr. Gitika Nagrath  
Dean (Commerce, Business Mgt. & Humanities)  
Associate Professor  
DAV University  
Jalandhar

**Subject: Letter of Appreciation**

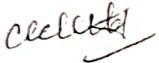
Respected Madam,

With all due respect, we express our heartfelt thanks to you for delivering your views on the occasion of Seminar on "NEW EDUCATION POLICY-2020 AND INSTITUTIONAL PREPAREDNESS", held in our college on March 18<sup>th</sup> 2023 as Resource Person.

It was a splendid presentation. All the delegates benefited from this lecture and appreciated your efforts.

We look forward to similar interactions in the future as well.

Yours Sincerely,



Principal

Baba Sahib Bhim Rao Ambedkar Government  
Co-Education College, Bootan Mandi, Jalandhar





# CERTIFICATE OF APPRECIATION

THIS CERTIFICATE IS AWARDED TO

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*Shallen Chen*

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*Sajida Sultana*

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